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Notice of Allowability

Application No.

10/651,452

Applicant(s)

SUBRAHMANYAM, SOMASHEKAR
RAMACHANDRAN

Examiner

Mary C. Jacob

Art Unit

2123

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed 6/11/07.
2. ☒ The allowed claim(s) is/are 1-28, 31, 32, 36-45, 48 and 49.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

DETAILED ACTION

1. The response filed 6/11/07 has been received and considered. Claims 1-51 have been presented for examination.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Andrew H. Leung (Reg. No. 55,374) on 8/8/07.

The application has been amended as follows:

Claim 29 has been cancelled.

Claim 30 has been cancelled.

Claim 33 has been cancelled.

Claim 34 has been cancelled.

Claim 35 has been cancelled.

Claim 46 has been cancelled.

Claim 47 has been cancelled.

Claim 50 has been cancelled.

Claim 51 has been cancelled.

Claim Objections

3. The claim objections recited in the Office Action dated 1/10/07 have been withdrawn in response to the amendments to the claims filed 6/11/07.

Claim Rejections - 35 USC § 112

4. The rejections of the claims under 35 U.S.C. 112, first paragraph, recited in the Office Action dated 1/10/07 have been withdrawn in response to the amendments to the claims and the specification filed 6/11/07.

5. The rejections of the claims under 35 U.S.C. 112, second paragraph, recited in the Office Action dated 1/10/07 have been withdrawn in response to the amendments to the claims and the specification filed 6/11/07.

Claim Rejections - 35 USC § 101

6. The rejections of the claims under 35 U.S.C. 101, recited in the Office Action dated 1/10/07 have been withdrawn in response to the amendments to the claims and the specification filed 6/11/07.

Response to Arguments

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7. Applicant's arguments, see pages 24-29, filed 6/11/07, with respect to Claims 1, 12, 31, 36, 42, and 48 have been fully considered and are persuasive. The rejections of Claims 1-28, 31, 32, 36-45, 48 and 49 have been withdrawn.

Allowable Subject Matter

8. Claim 1-28, 31, 32, 36-45, 48, 49 are allowed.

9. The following is an examiner's statement of reasons for allowance: While Subrahmanyam et al ("Feature Attributes and Their Role in Product Modeling", Solid Modeling '95, Salt Lake City, Utah, 1995) teaches the behavior of attributes under geometrical transformations, shape changing and topology changing operations that include spilt, copy and merge operations as well as the application of Boolean operations, Wang et al ("The Design and Fabrication of Welded Tubular Joints Using Solid Modelling Techniques", 2nd ACM Solid Modeling, 1993) teaches the modeling of a tubular joints and Computer & Automation Institute ("PROARC, No. 7831, CAD-Based Programming System for Arc Welding Robots in One-Off Production Runs", ESPRIT, 1/16.2001) teaches the simulating and generating of welding sequences for robot program generation including macros for fillet welds, none of these references taken either alone or in combination with the prior art of record disclose a method to generate a fillet weld bead within a computing environment, including:

(claim 1) "selecting within the computing environment, a generation technique", wherein "generation technique" is defined in the specification to be a triangular technique or a quadrilateral technique,

(claim 12) "conditionally trimming within the computing environment, the tool"

(claim 31) "conditionally forming within the computer aided design environment, a wire body" and "initializing within the computer aided design environment, data representations of disjoint pieces of the wire body as data representations of one or more paths if, the conditional forming operation was performed",

in combination with the remaining elements and features of the claimed invention. It is for these reasons that the Applicant's invention defines over the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mary C. Jacob whose telephone number is 571-272-6249. The examiner can normally be reached on Tuesday-Thursday, 7AM-4PM.

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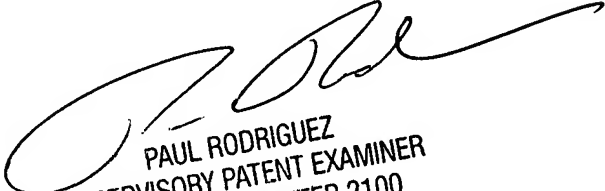
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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Rodriguez can be reached on 571-272-3753. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mary C. Jacob
Examiner
AU2123

MCJ
8/9/07



PAUL RODRIGUEZ
SUPERVISORY PATENT EXAMINER
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